

ABSTRACT OF THE DISCLOSURE

A video system includes a video source transmitting an output signal on a transmission line. The output signal has a format such that first portions of the output signal include active video signals and second portions of the output signal lack active video signals. Each of a plurality of video receivers displays images based upon the active video signals and transmits a respective data signal on a respective one of a plurality of ports. A distribution device is electrically connected to the transmission line and to each of the ports. The distribution device transmits each of the data signals to the video source on the transmission line only during time periods when the second portions of the output signal are being transmitted on the transmission line. The distribution device includes a plurality of amplifiers, each having an input and an output. Each of the amplifiers receives signals on the input for transmission on the output as amplified signals. Each amplifier blocks signals received on the output from being transmitted on the input. Each amplifier transmits a respective amplified signal to a respective one of the receivers on a respective one of the ports. Each of the amplified signals is dependent upon the output signal and upon a data signal transmitted on the transmission line from the receivers other than the respective receiver.